STIC Biotechnology Systems Branch

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Application Serial Number: _10/517,155_
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Revised 01/10/06

PCT

RAW SEQUENCE LISTING
PATENT APPLICATION: **US/10/517,155**

DATE: 03/31/2006
TIME: 15:12:17

Input Set : **A:\211080011U6.TXT**
Output Set: **N:\CRF4\03312006\J517155.raw**

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 4 <110> APPLICANT: Chang, Chawnshang
 6 <120> TITLE OF INVENTION: Androgen Receptor Coregulators
 9 <130> FILE REFERENCE: 21108.0011U6
11 <140> CURRENT APPLICATION NUMBER: 10/517,155
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C--> 12 **<141> CURRENT FILING DATE: 2004-12-06**
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14 <150> PRIOR APPLICATION NUMBER: PCT/US03/17937
15 <151> PRIOR FILING DATE: 2003-06-06
17 <150> PRIOR APPLICATION NUMBER: US 60/387,087
18 <151> PRIOR FILING DATE: 2002-06-06
20 <160> NUMBER OF SEQ ID NOS: 47
22 <170> SOFTWARE: FastSEQ for Windows Version 4.0
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 1721
26 <212> TYPE: DNA
27 <213> ORGANISM: Homo sapien
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30 <221> NAME/KEY: CDS
31 <222> LOCATION: (40)...(1464)
33 <220> FEATURE:
34 <221> NAME/KEY: misc_feature
35 <222> LOCATION: (1120)...(1452)
36 <223> OTHER INFORMATION: Coding sequence and polypeptide region for the
37       C-terminal domain
39 <220> FEATURE:
40 <221> NAME/KEY: misc_feature
41 <222> LOCATION: (697)...(834)
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43       form a cystein-rich RING finger motif
45 <220> FEATURE:
46 <221> NAME/KEY: misc_feature
47 <222> LOCATION: (964)...(1089)
48 <223> OTHER INFORMATION: Coding sequence and polypeptide region for a
49       cystein-rich B box like structure
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53                                              Met Ser Ser Glu Asp
54                                               1               5
56 cga gaa gct cag gag gat gaa ttg ctg gcc ctg gca agt att tac gat       102
57 Arg Glu Ala Gln Glu Asp Glu Leu Leu Ala Leu Ala Ser Ile Tyr Asp
58                 10                  15                  20
60 gga gat gaa ttt aga aaa gca gag tct gtc caa ggt gga gaa acc agg       150
61 Gly Asp Glu Phe Arg Lys Ala Glu Ser Val Gln Gly Gly Glu Thr Arg
62                 25                  30                  35
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pp 6-7

*Does Not Comply
Corrected Diskette Needed*

RAW SEQUENCE LISTING   DATE: 03/31/2006
PATENT APPLICATION: US/10/517,155   TIME: 15:12:17

Input Set : A:\211080011U6.TXT
Output Set: N:\CRF4\03312006\J517155.raw

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 64 atc tat ttg gat ttg cca cag aat ttc aag ata ttt gtg agc ggc aat      198
 65 Ile Tyr Leu Asp Leu Pro Gln Asn Phe Lys Ile Phe Val Ser Gly Asn
 66         40                  45                  50
 68 tca aat gag tgt ctc cag aat agt ggc ttt gaa tac acc att tgc ttt      246
 69 Ser Asn Glu Cys Leu Gln Asn Ser Gly Phe Glu Tyr Thr Ile Cys Phe
 70       55                  60                  65
 72 ctg cct cca ctt gtg ctg aac ttt gaa ctg cca cca gat tat cca tcc      294
 73 Leu Pro Pro Leu Val Leu Asn Phe Glu Leu Pro Pro Asp Tyr Pro Ser
 74 70                  75                  80                  85
 76 tct tcc cca cct tca ttc aca ctt agt ggc aaa tgg ctg tca cca act      342
 77 Ser Ser Pro Pro Ser Phe Thr Leu Ser Gly Lys Trp Leu Ser Pro Thr
 78                  90                  95                  100
 80 cag cta tct gct cta tgc aag cac tta gac aac cta tgg gaa gaa cac      390
 81 Gln Leu Ser Ala Leu Cys Lys His Leu Asp Asn Leu Trp Glu Glu His
 82              105                 110                 115
 84 cgt ggc agc gtg gtc ctg ttt gcc tgg atg caa ttt ctt aag gaa gag      438
 85 Arg Gly Ser Val Val Leu Phe Ala Trp Met Gln Phe Leu Lys Glu Glu
 86         120                 125                 130
 88 acc cta gca tac ttg aat att gtc tct cct ttt gag ctc aag att ggt      486
 89 Thr Leu Ala Tyr Leu Asn Ile Val Ser Pro Phe Glu Leu Lys Ile Gly
 90       135                 140                 145
 92 tct cag aaa aaa gtg cag aga agg aca gct caa gct tct ccc aac aca      534
 93 Ser Gln Lys Lys Val Gln Arg Arg Thr Ala Gln Ala Ser Pro Asn Thr
 94 150                 155                 160                 165
 96 gag cta gat ttt gga gga gct gct gga tct gat gta gac caa gag gaa      582
 97 Glu Leu Asp Phe Gly Gly Ala Ala Gly Ser Asp Val Asp Gln Glu Glu
 98                 170                 175                 180
100 att gtg gat gag aga gca gtg cag gat gtg gaa tca ctg tca aat ctg      630
101 Ile Val Asp Glu Arg Ala Val Gln Asp Val Glu Ser Leu Ser Asn Leu
102             185                 190                 195
104 atc cag gaa atc ttg gac ttt gat caa gct cag cag ata aaa tgc ttt      678
105 Ile Gln Glu Ile Leu Asp Phe Asp Gln Ala Gln Gln Ile Lys Cys Phe
106             200                 205                 210
108 aat agt aaa ttg ttc ctg tgc agt atc tgt ttc tgt gag aag ctg ggt      726
109 Asn Ser Lys Leu Phe Leu Cys Ser Ile Cys Phe Cys Glu Lys Leu Gly
110       215                 220                 225
112 agt gaa tgc atg tac ttc ttg gag tgc agg cat gtg tac tgc aaa gcc      774
113 Ser Glu Cys Met Tyr Phe Leu Glu Cys Arg His Val Tyr Cys Lys Ala
114 230                 235                 240                 245
116 tgt ctg aag gac tac ttt gaa atc cag atc aga gat ggc cag gtt caa      822
117 Cys Leu Lys Asp Tyr Phe Glu Ile Gln Ile Arg Asp Gly Gln Val Gln
118             250                 255                 260
120 tgc ctc aac tgc cca gaa cca aag tgc cct tcg gtg gcc act cct ggt      870
121 Cys Leu Asn Cys Pro Glu Pro Lys Cys Pro Ser Val Ala Thr Pro Gly
122             265                 270                 275
124 cag gtc aaa gag tta gtg gaa gca gag tta ttt gcc cgt tat gac cgc      918
125 Gln Val Lys Glu Leu Val Glu Ala Glu Leu Phe Ala Arg Tyr Asp Arg
126             280                 285                 290
128 ctt ctc ctc cag tcc tcc ttg gac ctg atg gca gat gtg gtg tac tgc      966
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Input Set : **A:\211080011U6.TXT**
Output Set: **N:\CRF4\03312006\J517155.raw**

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129 Leu Leu Leu Gln Ser Ser Leu Asp Leu Met Ala Asp Val Val Tyr Cys
130     295             300             305
132 ccc cgg ccg tgc tgc cag ctg cct gtg atg cag gaa cct ggc tgc acc      1014
133 Pro Arg Pro Cys Cys Gln Leu Pro Val Met Gln Glu Pro Gly Cys Thr
134 310             315             320             325
136 atg ggt atc tgc tcc agc tgc aat ttt gcc ttc tgt act ttg tgc agg      1062
137 Met Gly Ile Cys Ser Ser Cys Asn Phe Ala Phe Cys Thr Leu Cys Arg
138             330             335             340
140 ttg acc tac cat ggg gtc tcc cca tgt aag gtg act gca gag aaa tta      1110
141 Leu Thr Tyr His Gly Val Ser Pro Cys Lys Val Thr Ala Glu Lys Leu
142             345             350             355
144 atg gac tta cga aat gaa tac ctg caa gcg gat gag gct aat aaa aga      1158
145 Met Asp Leu Arg Asn Glu Tyr Leu Gln Ala Asp Glu Ala Asn Lys Arg
146             360             365             370
148 ctt ttg gat caa agg tat ggt aag aga gtg att cag aag gca ctg gaa      1206
149 Leu Leu Asp Gln Arg Tyr Gly Lys Arg Val Ile Gln Lys Ala Leu Glu
150             375             380             385
152 gag atg gaa agt aag gag tgg cta gag aag aac tca aag agc tgc cca      1254
153 Glu Met Glu Ser Lys Glu Trp Leu Glu Lys Asn Ser Lys Ser Cys Pro
154 390             395             400             405
156 tgt tgt gga act ccc ata gag aaa tta gac gga tgt aac aag atg aca      1302
157 Cys Cys Gly Thr Pro Ile Glu Lys Leu Asp Gly Cys Asn Lys Met Thr
158             410             415             420
160 tgt act ggc tgt atg caa tat ttc tgt tgg att tgc atg ggt tct ctc      1350
161 Cys Thr Gly Cys Met Gln Tyr Phe Cys Trp Ile Cys Met Gly Ser Leu
162             425             430             435
164 tct aga gca aac cct tac aaa cat ttc aat gac cct ggt tca cca tgt      1398
165 Ser Arg Ala Asn Pro Tyr Lys His Phe Asn Asp Pro Gly Ser Pro Cys
166             440             445             450
168 ttt aac cgg ctg ttt tat gct gtg gat gtt gac gac gat att tgg gaa      1446
169 Phe Asn Arg Leu Phe Tyr Ala Val Asp Val Asp Asp Asp Ile Trp Glu
170     455             460             465
172 gat gag gta gaa gac tag ttaactactg ctcaagatat ttaactactg           1494
173 Asp Glu Val Glu Asp  *
174 470
176 ctcaagatat ggaagtggat tgtttttccc taatcttccg tcaagtacac aaagtaactt   1554
177 tgcgggatat ttagggtact attcattcac tcttcctgcg tagaagatat ggaagaacga   1614
178 ggtttatatt ttcatgtggt actactgaag aaggtgcatt gatacatttt taaatgtaag   1674
179 ttgagaaaaa tttataagcc aaaggttcag aaaattaaac tacagaa               1721
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182 <211> LENGTH: 474
183 <212> TYPE: PRT
184 <213> ORGANISM: Homo sapien
186 <400> SEQUENCE: 2
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189 Ala Ser Ile Tyr Asp Gly Asp Glu Phe Arg Lys Ala Glu Ser Val Gln
190             20              25              30
191 Gly Gly Glu Thr Arg Ile Tyr Leu Asp Leu Pro Gln Asn Phe Lys Ile
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RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/517,155

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Input Set : A:\211080011U6.TXT
Output Set: N:\CRF4\03312006\J517155.raw

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193 Phe Val Ser Gly Asn Ser Asn Glu Cys Leu Gln Asn Ser Gly Phe Glu
194     50                55                60
195 Tyr Thr Ile Cys Phe Leu Pro Pro Leu Val Leu Asn Phe Glu Leu Pro
196 65                70                75                80
197 Pro Asp Tyr Pro Ser Ser Ser Pro Pro Ser Phe Thr Leu Ser Gly Lys
198                 85                90                95
199 Trp Leu Ser Pro Thr Gln Leu Ser Ala Leu Cys Lys His Leu Asp Asn
200             100                105                110
201 Leu Trp Glu Glu His Arg Gly Ser Val Val Leu Phe Ala Trp Met Gln
202         115                120                125
203 Phe Leu Lys Glu Glu Thr Leu Ala Tyr Leu Asn Ile Val Ser Pro Phe
204     130                135                140
205 Glu Leu Lys Ile Gly Ser Gln Lys Lys Val Gln Arg Arg Thr Ala Gln
206 145                150                155                160
207 Ala Ser Pro Asn Thr Glu Leu Asp Phe Gly Gly Ala Ala Gly Ser Asp
208                 165                170                175
209 Val Asp Gln Glu Glu Ile Val Asp Glu Arg Ala Val Gln Asp Val Glu
210             180                185                190
211 Ser Leu Ser Asn Leu Ile Gln Glu Ile Leu Asp Phe Asp Gln Ala Gln
212         195                200                205
213 Gln Ile Lys Cys Phe Asn Ser Lys Leu Phe Leu Cys Ser Ile Cys Phe
214     210                215                220
215 Cys Glu Lys Leu Gly Ser Glu Cys Met Tyr Phe Leu Glu Cys Arg His
216 225                230                235                240
217 Val Tyr Cys Lys Ala Cys Leu Lys Asp Tyr Phe Glu Ile Gln Ile Arg
218             245                250                255
219 Asp Gly Gln Val Gln Cys Leu Asn Cys Pro Glu Pro Lys Cys Pro Ser
220             260                265                270
221 Val Ala Thr Pro Gly Gln Val Lys Glu Leu Val Glu Ala Glu Leu Phe
222         275                280                285
223 Ala Arg Tyr Asp Arg Leu Leu Leu Gln Ser Ser Leu Asp Leu Met Ala
224     290                295                300
225 Asp Val Val Tyr Cys Pro Arg Pro Cys Cys Gln Leu Pro Val Met Gln
226 305                310                315                320
227 Glu Pro Gly Cys Thr Met Gly Ile Cys Ser Ser Cys Asn Phe Ala Phe
228             325                330                335
229 Cys Thr Leu Cys Arg Leu Thr Tyr His Gly Val Ser Pro Cys Lys Val
230             340                345                350
231 Thr Ala Glu Lys Leu Met Asp Leu Arg Asn Glu Tyr Leu Gln Ala Asp
232         355                360                365
233 Glu Ala Asn Lys Arg Leu Leu Asp Gln Arg Tyr Gly Lys Arg Val Ile
234     370                375                380
235 Gln Lys Ala Leu Glu Glu Met Glu Ser Lys Glu Trp Leu Glu Lys Asn
236 385                390                395                400
237 Ser Lys Ser Cys Pro Cys Cys Gly Thr Pro Ile Glu Lys Leu Asp Gly
238             405                410                415
239 Cys Asn Lys Met Thr Cys Thr Gly Cys Met Gln Tyr Phe Cys Trp Ile
240             420                425                430
```

```
241 Cys Met Gly Ser Leu Ser Arg Ala Asn Pro Tyr Lys His Phe Asn Asp
242         435                 440                 445
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244         450                 455                 460
245 Asp Asp Ile Trp Glu Asp Glu Val Glu Asp
246 465                 470
248 <210> SEQ ID NO: 3
249 <211> LENGTH: 1335
250 <212> TYPE: DNA
251 <213> ORGANISM: Homo sapien
253 <220> FEATURE:
254 <221> NAME/KEY: CDS
255 <222> LOCATION: (1)...(1335)
257 <220> FEATURE:
258 <221> NAME/KEY: misc_feature
259 <222> LOCATION: (750)...(1332)
260 <223> OTHER INFORMATION: Coding sequence and polypeptide region for the
261       C-terminal binding domain
263 <220> FEATURE:
264 <221> NAME/KEY: misc_feature
265 <222> LOCATION: (631)...(783)
266 <223> OTHER INFORMATION: Coding sequence and polypeptide region for a
267       cystein rich LIM motif
269 <220> FEATURE:
270 <221> NAME/KEY: misc_feature
271 <222> LOCATION: (808)...(996)
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275 <220> FEATURE:
276 <221> NAME/KEY: misc_feature
277 <222> LOCATION: (985)...(1137)
278 <223> OTHER INFORMATION: Coding sequence and polypeptide region for a
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281 <220> FEATURE:
282 <221> NAME/KEY: misc_feature
283 <222> LOCATION: (1162)...(1314)
284 <223> OTHER INFORMATION: Coding sequence and polypeptide region for a
285       cystein rich LIM motif
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290 1               5                   10                  15
292 cct ccc cca tcc tat ggc cac cag cca aca ggg cag tct ggg gag tct        96
293 Pro Pro Pro Ser Tyr Gly His Gln Pro Thr Gly Gln Ser Gly Glu Ser
294             20                  25                  30
296 tca gga gcc tcg ggg gac aag gac cac ctg tac agc acg gta tgc aag       144
297 Ser Gly Ala Ser Gly Asp Lys Asp His Leu Tyr Ser Thr Val Cys Lys
298             35                  40                  45
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<210> 11
<211> 32
<212> PRT
<213> Homo sapien

<220>
<221> VARIANT   *what about Xaa at location 5?*
<222> 2-3, 6-13, 15, 17-18, 20-21, 23-28, 30-31
<223> Xaa can be any amino acid

<400> 11
Cys Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa His
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Xaa Xaa Cys Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Cys
            20   25   30

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 03/31/2006
PATENT APPLICATION: US/10/517,155 TIME: 15:12:18

Input Set : **A:\211080011U6.TXT**
Output Set: **N:\CRF4\03312006\J517155.raw**

FYI

<u>Please Note:</u>
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:11; Xaa Pos. 2,3,5,6,7,8,9,10,11,12,13,15,17,18,20,21,23,24,25,26,27
Seq#:11; Xaa Pos. 28,30,31
Seq#:12; Xaa Pos. 2,3,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,22,23,25
Seq#:12; Xaa Pos. 26,28,29,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46
Seq#:12; Xaa Pos. 48,49

Input Set : **A:\211080011U6.TXT**
Output Set: **N:\CRF4\03312006\J517155.raw**

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:1028 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
M:341 Repeated in SeqNo=11
L:1044 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0
M:341 Repeated in SeqNo=12